

Eric M. Weaver, Ph.D.

Prolian Health and Biologicals

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Current position 2005 – present **Chief Scientific Officer** **Proliant Health and Biologicals**

Responsibilities:

- Lead the clinical development effort for current and future products.
 - Chair the scientific advisory board
 - Direct the product discovery and development efforts including the management of intellectual property

Professional experience

2003-2005	President/CEO	Proliant Health Ingredients, Ankeny IA
1998-2003	Vice-President	

Start-up of a new global ingredient business focused on the manufacture and marketing of serum protein-based ingredients for use in human health and nutrition products. The target customers are nutrition and health companies that market dietary supplements and products for clinical nutrition, sports nutrition, functional foods and infant nutrition.

Responsible for all aspects of business planning and plan execution including financial projections. Management of sales and marketing, product development and internal and external research.

Coordinate production and quality assurance activities.

Develop market for ImmunoLin®, an immunoglobulin-based nutraceutical.

1997 - 1998 American Protein Corporation Ames, IA
Business Unit Manager and Director of Research and Technical Services



- Responsible for the technical direction and activities of the swine business unit including profitability. The position required intimate knowledge of the swine industry and company objectives pertaining to the sales of plasma protein-based ingredients into swine feed and health products.
 - Major accomplishment: Participated in the remarkable growth of the global market for spray-dried plasma proteins in the feed and animal health market

1994 - 1997 American Protein Corporation Ames, IA
Nutritionist

- Responsible for the technical development and sales support for plasma and blood-based proteins to animal nutrition and health companies world-wide. This position was primarily responsible for the development, coordination and communication of research concepts and projects with both internal and external research groups as well as the technical support of products.

1992 - 1994 Farmland Industries Kansas City, MO
Swine Nutritionist

- Responsible for program development, formulation and technical support of swine feed products for both Swine Feeds and Pork Production Divisions.

Education

Ph. D., Animal Science, Monogastric Nutrition

- The plan of study addressed the interaction between antioxidant nutrition and health in a pig model of free-radical-induced disease, mulberry heart disease. The study evaluated the possibility of a bacterial link in the disease etiology.

1986 - 1989 South Dakota State University Brookings, SD

M. S., Animal Science, Monogastric Nutrition

- The plan of study addressed antioxidant status and tissue levels of vitamin E in relation to body composition and dietary fat and vitamin A supplementation.

1984 - 1986 University of Northern Iowa Cedar Falls, IA
B. A., Biology

Publications and patents

- Earnest CP, Jordan AN, Safir M, Weaver E, Church TS. Cholesterol-lowering effects of bovine serum immunoglobulin in participants with mild hypercholesterolemia. *Am J Clin Nutr* 2005;81:792-8.
- Pierce, J. L., Cromwell, G. L., Lindemann, M.D., Russell, L. E., and Weaver, E. M. Spray-dried animal plasma and immunoglobulins for early-weaned pigs. *J. Anim. Sci.* 2005 (In press)
- Harrell R, Moon H, Weaver EM et al. Effects of animal plasma proteins on intestinal recovery of neonatal pigs infected with rotavirus. *Pediatrics* 2005 (In press)
- Kerr BJ, Kidd MT, Cuaron JA et al. Utilization of spray-dried blood cells and crystalline isoleucine in nursery pig diets. *J Anim Sci* 2004;82:2397-404.
- Hunt, E., Q. Fu, M. U. Armstrong, D. K. Rennix, D. W. Webster, J. A. Galanko, W. Chen, E. M. Weaver, R. A. Argenzio, J. M. Rhoads. Oral bovine serum concentrate improves cryptosporidial enteritis in calves. 2002. *Pediatr. Res.* 51:370-376.
- Yoder, R. D. and E. M. Weaver. Globulin protein to lower cholesterol in humans. 2002. Patent application.
- Campbell, J. M., R. E. Strohbehn, E. M. Weaver, B. S. Borg, L. E. Russell, F. J. P. Pozo, J. D. Quigley, III. 2002. Methods and compositions for treatment of immune dysfunction disorders. Patent application.
- Campbell, J. M., R. E. Strohbehn, E. M. Weaver, B. S. Borg, L. E. Russell, F. J. P. Pozo, J. D. Quigley, III. 2001. Pharmaceutical compositions and methods comprising immunoglobulin proteins for oral administration. Patent application.
- Jiang, R., X. Chang, B. Stoll, M. Z. Fan, D. G. Burrin, J. Arthington, J. Campbell, and E. Weaver. 2000. Biological effects of dietary plasma protein on small intestinal growth and mucosal morphology in early-weaned pigs. *J. Nutr.* 130:21-26.
- Jiang, R., X. Chang, B. Stoll, K. Ellis, R. Shypailo, E. Weaver, J. Campbell, D. G. Burrin. 2000. Feeding animal plasma increases the efficiency of dietary protein use for lean tissue growth in early weaned pigs. *J. Nutr.* 130:2016-2019.
- Mahan, D. C., T. D. Wiseman, E. Weaver, and L. Russell. 1999. Effect of supplemental sodium chloride and hydrochloric acid added to initial starter diets containing spray-dried blood plasma and lactose on resulting performance and nitrogen digestibility of 3-week-old weaned pigs. *J. Anim. Sci.* 77:3016-3021.
- Weaver, E. M. 1999. The use of an animal serum based immunoglobulin product for the prevention of verotoxin-induced disease. U. S. Patent Application. Pending.
- Weaver, E. M. and D. U. Thomson. 1998. The use of serum based immunoglobulin through the water source to improve growth and reduce morbidity in stressed animals. U. S. Patent Application. Pending.
- Campbell, J., L. E. Russell and E. M. Weaver. 1999. Granular plasma improves growth rate and feed efficiency in animals. U. S. Patent.

Weaver, E. M., L. E. Russell, and M. D. Drew. 1995. The effect of spray-dried plasma fractions on performance of newly weaned pigs. *J. Anim. Sci.* 73(Suppl. 1):81.

Weaver, E. M. 1992. A re-evaluation of the etiology of mulberry heart disease. Ph. D. Dissertation.

Weaver, E. M., G. W. Libal, C. R. Hamilton, I. S. Palmer, and D. Patten. 1991. The effects of body composition and dietary additions of vitamin E and soybean oil on heart and liver concentrations of malondialdehyde in the weaned pig. *J. Anim. Sci.* 69(Suppl. 1):361 (Abstract)

Additional professional activities

Board of Directors, Heartland Fields, West Des Moines, IA

Partner, WW Swine Farms, Inc.

Professional memberships

Member, The Institute for Functional Medicine

Associate Member, American Association of Swine Veterinarians

Member, American Society of Animal Science

Member, American Feed Ingredients Association